



Federal Fleet Management Training

Meeting Energy Mandates: Advice From Your Vehicle Provider

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MVM'S SUSTAINABLE GOALS & OPPORTUNITIES



MVM's Goals

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- Right vehicle, right price, great service and the required data needed to effectively and efficiently manage a fleet
- Assist agencies to improve overall management of the Federal Fleet



MVM's Customer Focus



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- Access to the latest technology vehicles at affordable prices
 - 1,513 AFV offerings in 2014 including electric, hybrid electric, ethanol flex-fuel & CNG
 - Pilot opportunities
 - Significant discount below invoice for alternative fuel vehicles
 - Access to charging stations
- Support with vehicle selection and ordering
 - Dedicated Alternative Fuel Vehicle Program



Hybrid Opportunities

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- GSA Fleet is funding replacement vehicles with new hybrid sedans, available to:
 - Owned/commercial lease vehicles that convert to GSA Fleet
 - Current GSA Fleet customers during the 2014 acquisition cycle
- Energy efficient and cost-saving opportunity



Benefits of GSA-Leasing

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- Low cost provider
- Access to new and emerging technologies
- No need for capital outlay
- All-inclusive rates
- Automated information systems
- Nationwide network of knowledgeable Fleet Service Representatives
- Guaranteed vehicle replacements: modern fleet
- AMC, MCC & LPT
- Flexibility in fleet configuration & size
- Fleet Solutions



OPTIMIZING YOUR FLEET

Benefits of Optimizing

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Optimize Your Fleet



**Greater Ability to
Meet Federal
Mandates**

**Reduced Fleet
Costs**



How To Get There

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- Clearly define agency mission & goals
- Federal sustainability requirements
- Know your fleet
- Use the data available to you
- Right-size and optimize
- Explore vehicle options & current offers



Federal Sustainability Requirements

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- EPA Act 92/05 – 75% of light-duty acquisitions in MSAs must be alternatively-fueled. NDAA 2008 expanded definition of EPA Act to include hybrids & any new vehicles at the discretion of EPA administrator.
- Energy, Independence & Security Act Section 141 2007 – **Acquire only low greenhouse emitting gas vehicles** (light-duty vehicles <8,500 GVWR) with some exceptions.

MY 2014 EISA 141 Compliance Thresholds

Vehicle Type	Maximum CO2 emissions
Passenger Cars	315 g/mile
Light-Duty Trucks, MDPVs	390 g/mile
Flex Fuel Passenger Cars	360 g/mile on E85
Flex Fuel Light-Duty Trucks	435 g/mile on E85



Federal Sustainability Requirements, continued

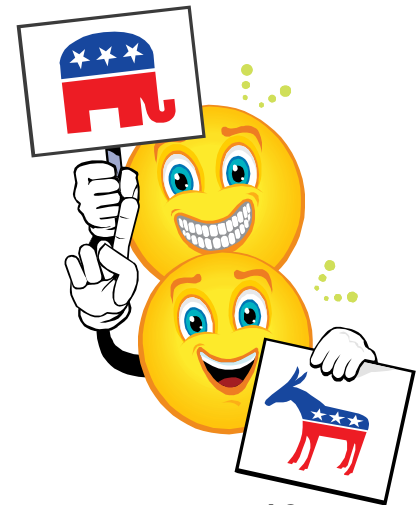
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- Executive Order 13423 (2007) – Increase **alt. fuel consumption** by 159.4% (10% annually over the previous year) by 2015, from a 2005 baseline.
- Executive Order 13514 (2009) – **Reduce petroleum consumption** by 30% (2% annually) by 2020, from a 2005 baseline.
- 2011 Presidential Memorandum – By December 31st 2015 **all new light duty vehicles** leased or purchased **must be alternatively fueled vehicles**.

Know Your Fleet

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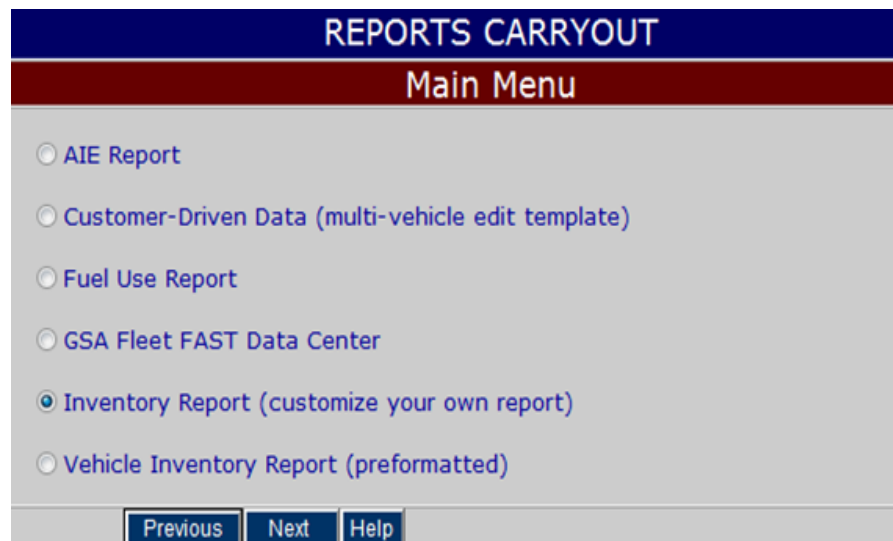
- What alt. fuel stations are close to your vehicles?
- What are the daily jobs/tasks/duties of each of your bureaus?
 - Are these jobs seasonal?
- What climates and locations does your fleet operate in?
- What are your agency's short term and long term sustainability goals?
- What alt. fuel stations are close to your vehicles?



Where To Get The Data

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GSA-Leased Data: GSA Fleet Drive-Thru



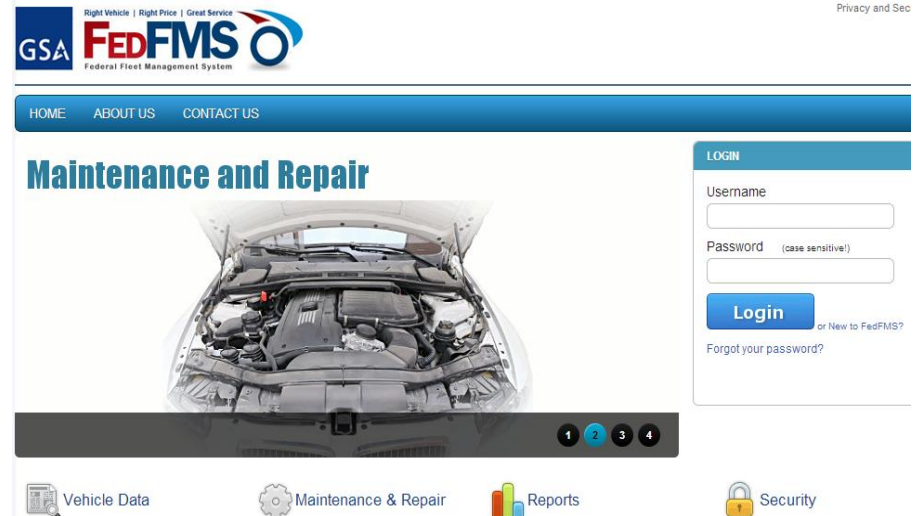
REPORTS CARRYOUT

Main Menu

- ☐ AIE Report
- ☐ Customer-Driven Data (multi-vehicle edit template)
- ☐ Fuel Use Report
- ☐ GSA Fleet FAST Data Center
- ☒ Inventory Report (customize your own report)
- ☐ Vehicle Inventory Report (preformatted)

Previous Next Help

Agency-Owned Data: FedFMS



GSA FedFMS Federal Fleet Management System

Right Vehicle | Right Price | Great Service

HOME ABOUT US CONTACT US

Maintenance and Repair

LOGIN

Username

Password (case sensitive)

Login or New to FedFMS?

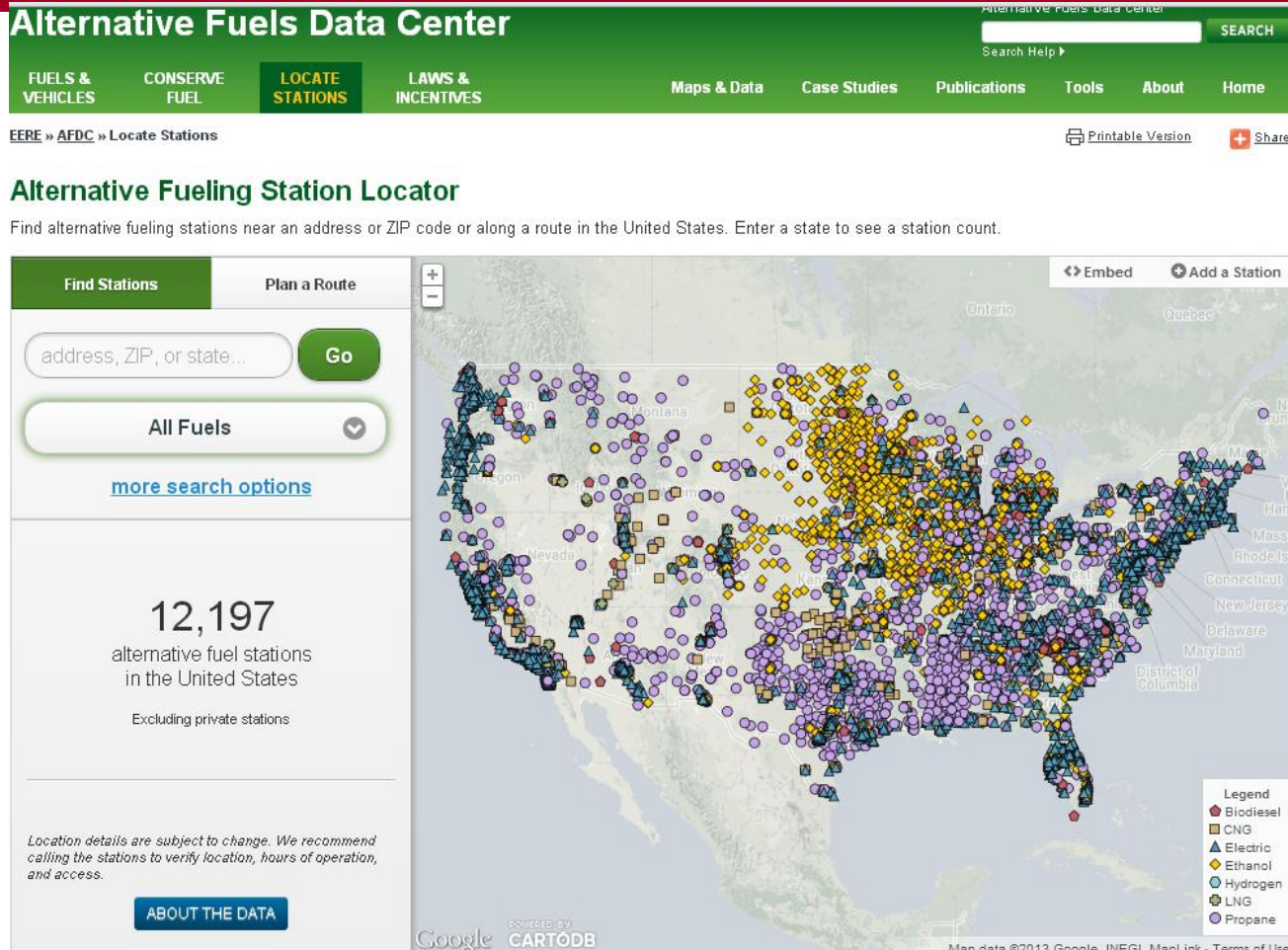
Forgot your password?

1 2 3 4

Vehicle Data Maintenance & Repair Reports Security

Alternative Fuel Locator

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Public Stations by Fuel Type

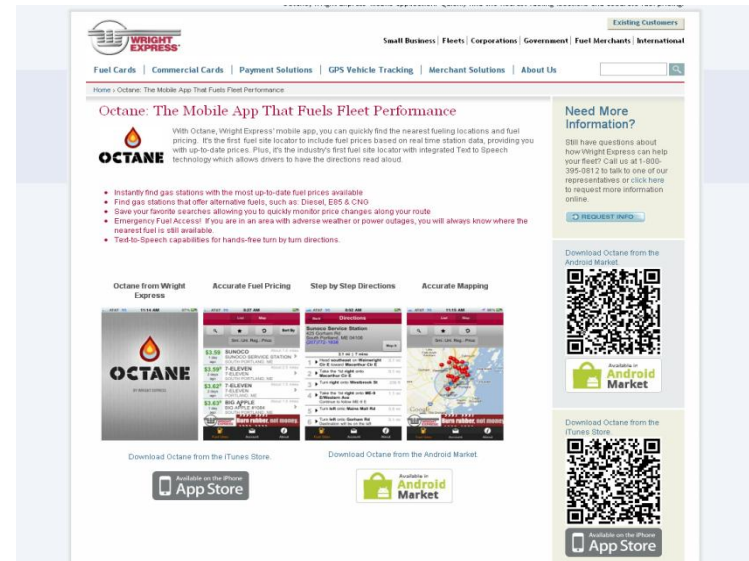
- Electric: 7,470
- LNG: 2,732
- E85: 2,384
- CNG: 662
- Biodiesel: 323
- LNG: 47
- Hydrogen: 10

Alternative Fuel Locator, en route

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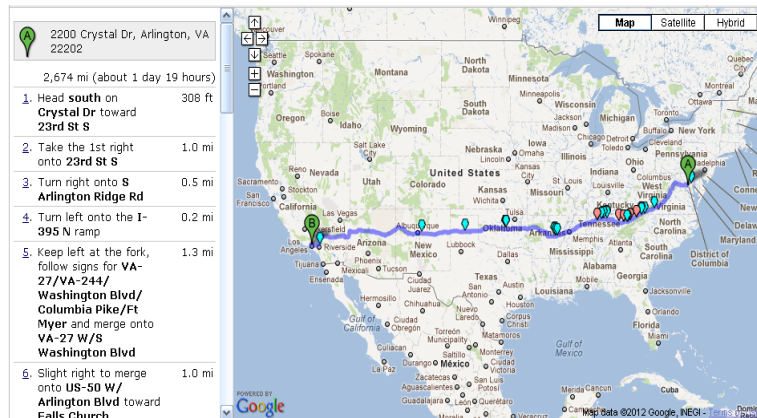
WEX Fuel Finder Mobile App (only available on Droid & iPhone)

<http://www.wrightexpress.com/octane-mobile-app-fuels-fleet-performance>



DOE Alternative Fuel Finder Mobile Site

<http://www.afdc.energy.gov/stations/m>



2200 Crystal Dr, Arlington, VA 22202

2,674 mi (about 1 day 19 hours)

1. Head south on Crystal Dr toward 23rd St S 308 ft
2. Take the 1st right onto 23rd St S 1.0 mi
3. Turn right onto 8 Arlington Ridge Rd 0.5 mi
4. Turn left onto the I-395 N ramp 0.2 mi
5. Keep left at the fork, follow signs for VA-27/VA-244/ Washington Blvd/ Columbia Pike/Ft Meyer and merge onto VA-27 W/S Washington Blvd 1.3 mi
6. Slight right to merge onto US-50 W/ Arlington Blvd toward Falls Church 1.0 mi



Geography Matters



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- CARB Emission Standards apply in 12 states & DC
 - In these 12 states and DC, certain E85 vehicles will come standard with gasoline engines.
 - Use the Low GHG Guide in the FY14 AFV Alternative Fuel Vehicle Acquisition Tool to see which vehicles apply:
<http://www.gsa.gov/portal/content/104211>

12 CARB Emission States

California
Connecticut
Massachusetts
Maine
Maryland
New Jersey
New York
Oregon
Pennsylvania
Rhode Island
Vermont
Washington

Rules of Thumb for Acquisition

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	<i>Fuel Economy</i>			
	<i>More GREEN</i>			<i>Less Green</i>
Size	<i>Small</i>			<i>Large</i>
Transmission	<i>Manual</i>			<i>Automatic</i>
Vehicle Class	<i>Sedan</i>			<i>Truck/SUV</i>
Advanced Powertrain	<i>Battery/Electric</i>	<i>Hybrid</i>	<i>Diesel/CNG/E85</i>	<i>Gas</i>
Engine Displacement	<i>Smaller</i>			<i>Bigger</i>
Vehicle Weight	<i>Lighter</i>			<i>Heavier</i>
Cylinders	<i>Less</i>			<i>More</i>
Age	<i>Younger</i>			<i>Older</i>



Significant Factors in Greening the GSA Fleet

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Downsizing

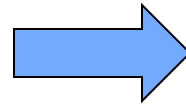




Significant Factors in Greening the GSA Fleet

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Switching to Hybrids

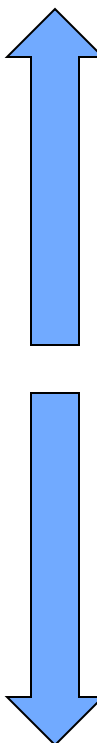




Alternative Fuels To Consider



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Fuel Type		Fuel Source	Advantages	Disadvantages
	Greater Availability			
Ethanol (E85)		Fermenting biomass, 85% ethanol, 15% unleaded gas	Vehicles are cheap, eliminates dependence on foreign oil	Somewhat corrosive, contains less energy than gasoline, food source
Biodiesel (B20)		Made from biomass, 20% biodiesel & 80% petroleum diesel	Contains 3.2x amount of energy it takes to produce it	Vehicles are expensive, contains less energy per unit than petroleum diesel
Electricity		Burning of high-sulfur coal to solar cells	Low m&r cost, flexible fueling, zero tailpipe emissions, ↓ dependence on oil	Vehicles are expensive, expensive charging infrastructure, range anxiety (perceived)
Compressed Natural Gas (CNG)		Natural gas imported through pipelines	Fuel is cheap, variety of new, heavy-duty vehicles available in U.S., low fuel cost	Vehicles are expensive, conversions necessary, special mechanics, large tanks, limited fueling infrastructure
	Less Availability			

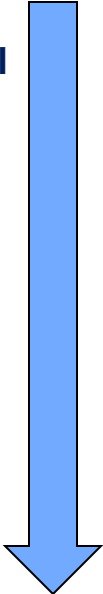


Alternative Fuels To Consider



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Fuel Type	Fuel Source	Advantages	Disadvantages
Liquefied Natural Gas (LNG)	Cooled natural gas-liquefies	Low emissions	Little to no products, complex & expensive fuel tanks
Propane (LPG)	Byproduct of petroleum refining	Costs less than gasoline, majority is produced domestically	Lower BTU rating than gasoline (lower fuel economy)
Hydrogen	"re-forming" fossil fuel, electrolyzing water	Zero tailpipe emissions, traveling long distances	Expensive, difficult to store & transport, lack of fuel cell infrastructure/product


Very Little Availability



Do You Need a Charging Station?

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- Plug-in and all electric vehicles
- Installation of charging station requires coordination with building manager and/or leasing company
- May require lease modification
- GSA Automotive sells electric vehicle charging stations under GSA Advantage Schedule 23V
- Installation services not available through GSA Automotive, Agency should work with building personnel



How Much Incremental Do You Need?

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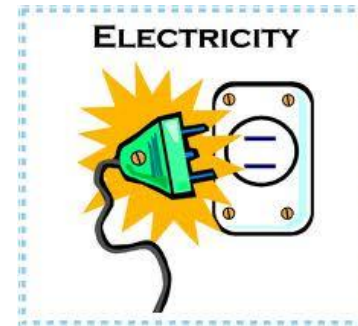
- What you need to know
 - Quantity of vehicles in your fleet
 - Quantity and incremental cost of the vehicles you want to procure

- Use our helpful AFV Surcharge Calculator Tool located on our [AFV Guides and Helpful Links](#) page

FY14 AFV Configurations Available

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- 993 B20 Capable
- 226 E85
- 124 Hybrid Electric
- 70 CNG
- 53 Liquid Propane
- 32 Low Green House Gas-Emitting
- 6 Pure Electric
- 4 Liquefied Natural Gas
- 3 Plug-in Electric/Gas
- 2 Bi-Fuel CNG/Gas





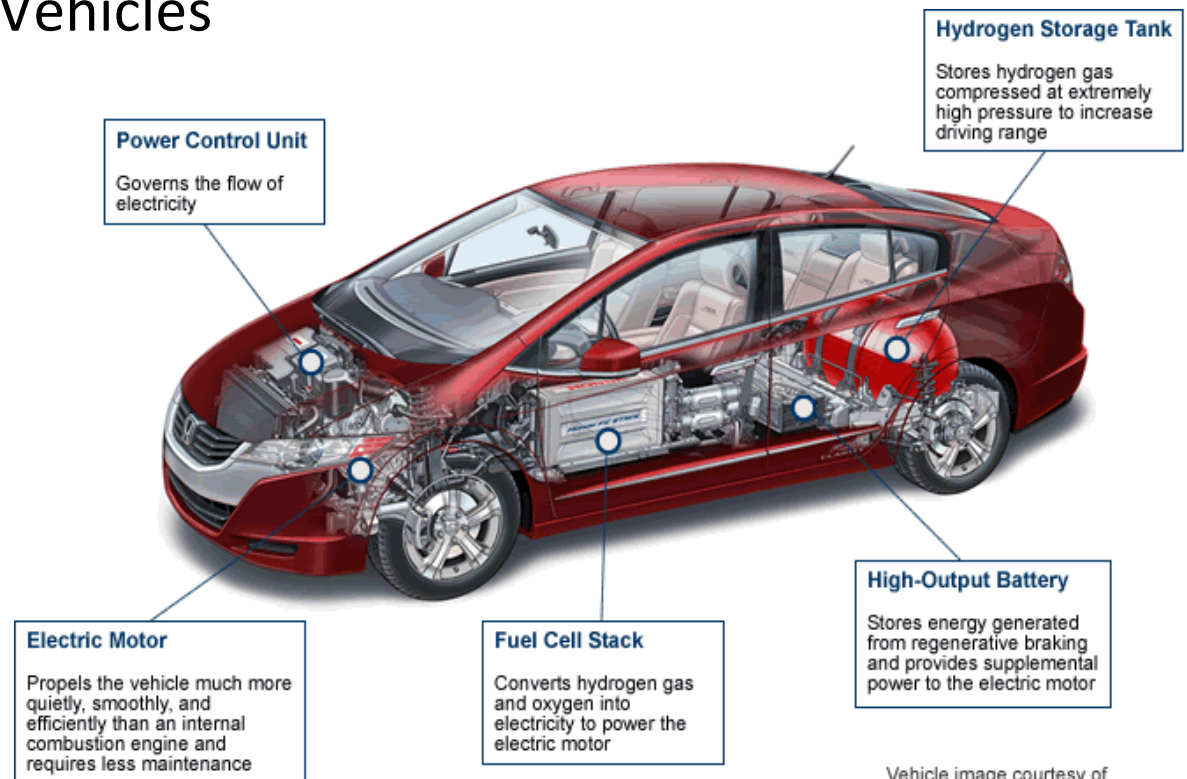
Low GHGs Available

- A static low greenhouse gas (GHG) listing can be found in the 2014 AFV Acquisition Tool:
<http://www.gsa.gov/portal/content/104211>
- Some vehicles only qualify when burning E85
- Some E85 low GHG vehicles come standard as gasoline in states that follow CARB emission standards
- In areas where E85 is not readily available, low GHG gasoline vehicles can count as AFVs.

On The Horizon

➤ Hydrogen Fuel Cell Vehicles

- Converts hydrogen (onboard) + oxygen (in the air) to electricity
- No harmful tailpipe emissions



Vehicle image courtesy of American Honda Motor Co., Inc.



Tools/Resources You Can Use

Federal Fleet Management Training

- [MVM AFV Cost Comparison Tool](#)
- [GSA Fleet Drive-thru](#)
- [FedFMS](#)
- [Find Your FMC/FSR](#)
- [DOE Cost Comparison Tool](#)
- [GSA MVM Training](#)
- [EISA Section 141 Guidance](#)
- [Alternative fuel locations and availability](#)
- [FY2012 Federal Fleet Report](#)
- [FEMP Federal Fleet Management Documents](#)
- [GSAAdvantage](#)



THANK YOU!

QUESTIONS?